

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS.

CANBERRA, AUSTRALIA.

STATISTICAL BULLETIN:
MINERALS AND METALS, AUSTRALIA

NO. 4 - QUARTER ENDED 31ST DECEMBER, 1952.

Prepared under Instructions from the
Right Honorable the Treasurer

by

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STATISTICAL BULLETIN : MINERALS AND METALS, AUSTRALIANo. 4 - Quarter ended 31st December, 1952.PREFACE

Statistics included in this issue relate to Australian production and overseas trade of minerals and metals. It is proposed to extend the scope of the Bulletin in future issues, as further progress is achieved in improving and expanding statistical data relating to various phases of the mining, processing and disposal of Australian minerals and metals.

In the main, the data used in the preparation of this Bulletin relating to mineral production consist of official statistics of Mines Departments furnished to this Bureau by the Statisticians of the several States and by the Northern Territory Mines Branch. These statistics have been supplemented as necessary by data obtained from the Australian Mines and Metals Association (Inc.), the Bureau of Mineral Resources and several other sources.

Prior to the year 1950, the official statistics of mineral production in Australia were very defective because of the widely different methods adopted by the several States in collecting, compiling and reporting the data. The Bureau of Mineral Resources had done some work in re-arranging State data with the object of deriving satisfactory Commonwealth totals but it was not until 1950 that the first effective results were obtained from the implementation (in some States) of the plan which originated at the 1945 Conference of Statisticians for the unification and standardization of Australian mineral statistics. Further improvements were made in 1951 and 1952 and work is proceeding with the object of removing the remaining defects in the statistics with particular emphasis on the problem of obtaining sound and uniform statistical value and employment data for all States and Territories.

The fundamental provision of the plan for standardization of mineral statistics in Australia is that quantities and values of individual minerals produced should be reported in terms of the products in the form in which they are despatched from the locality of each mine. This involves the inclusion in the mining industry of ore-dressing and elementary smelting of metallic minerals (e.g. in the case of gold) and miscellaneous treatment of non-metallic minerals where these operations are carried out in an associated plant at or near the mine. For example, in the case of a metal mine, the output is recorded as ore when no treatment is undertaken at the mine or as a concentrate where ore-dressing operations are carried out in associated works in the locality of the mine.

The particulars of quantities of minerals produced shown in Table 4 have been compiled on this basis as far as practicable. This has involved some re-arrangement of Mines Department official statistics for States which have not yet fully implemented the uniform plan. Actual output of the mineral product (as defined in the preceding paragraph) has generally been reported but in the cases indicated by footnote (a), despatches from the mine, (or sales) as distinct from production, have been recorded. In addition to the basic quantity data, particulars of contents of metallic minerals (and of contents or average grade of selected non-metallic minerals) have been shown in detail in Table 4 and in summary form in the case of metallic minerals in Table 5. In general, the particulars of content of metallic minerals represent total contents (as determined by assay) for each metal which is a "pay metal" or "refiners' prize" when present in the particular mineral. The data in Table 4 exclude construction materials (sand, gravel, building stone, etc.) and some non-metallic minerals for which relevant particulars are not at present available.

In view of the statistically unsatisfactory nature of information at present available as to the values of individual minerals produced in some States, data covering the value of mineral output shown in this Bulletin have been confined to totals for the three groups of minerals in Table 6. These represent the totals of values ascribed to the minerals in each group by Mines Departments and are not strictly comparable as between States because of the dissimilar bases on which they have been

calculated. Furthermore, revised methods of calculating values adopted in some States in 1950 have resulted in a break in continuity of the series from that year. Notwithstanding their defects, they have been included to give a broad indication of the absolute level of, and trends in, the value of Australian mineral production.

Where the unit "ton" is used in this Bulletin, it refers to the long ton of 2240 lb. Data for the year 1952, are generally subject to revision. Some revisions to quarterly figures already published have been incorporated in the preliminary totals for 1952.

I extend my thanks to State Departments of Mines, State Statisticians, the Bureau of Mineral Resources and others who have supplied information used for the preparation of this Bulletin.

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CANBERRA. A.C.T.

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SUMMARY

The following provides a summary of trends in the production and oversea trade of principal minerals and metals for Australia during the year 1952, in comparison with earlier periods:-

(i) Production of Minerals: The mine production of metals (i.e. metal contents of ores, concentrates and other minerals produced) during 1952 was greater than in 1951 in the case of all principal metals except tin for which a small decrease was recorded. The largest increases recorded were for iron (19.9 per cent.), silver (10.1 per cent.) and gold (9.5 per cent.). The mine production of metals in the quarter ended 31st December, 1952 was greater than in the preceding quarter in the case of gold and iron. However, mine output was less for all other principal metals.

The mine production of each of the principal metals during 1952 was substantially less than in 1939 in the case of tin, gold, silver and lead. Smaller decreases occurred for copper and zinc, while an increase was recorded for iron.

Production of black coal during 1952 was 10.3 per cent. in excess of production in 1951 (11.3 per cent. for open-cut and 10.0 per cent. for underground mines), while brown coal output was 3.4 per cent. greater.

Production of sulphur (i.e. sulphur content of zinc concentrates and pyrites produced and of spent oxide roasted) for 1952 was 18.7 per cent. greater than for 1951 and 44.0 per cent greater than for 1939.

The following table sets out particulars of the production of principal minerals in Australia for the years 1939 and 1949 to 1952, and each quarter of 1952.

TABLE 1 : PRODUCTION OF PRINCIPAL MINERALS : AUSTRALIA

9

Particulars	Quantities of Metal Contents of Minerals Produced							Quantities Produced		
	Copper	Gold	Lead	Iron	Silver	Tin	Zinc	Black Coal	Brown Coal	Sulphur (b)
	Tons	fine oz.	Tons	Tons	'000 fine oz.	Tons	Tons	'000 tons	'000 tons	tons
Annual Totals -										
1939	20,560	1,645,697	280,003	1,546,031	15,320	3,067	214,823	13,535	3,651	151,008
1949	13,462	889,058	209,292	924,836	10,102	1,886	175,988	14,106	7,376	160,777
1950	17,481	869,537	225,367	1,417,608	10,894	1,854	197,783	16,543	7,327	179,843
1951	(a)17,926	(a)895,551	(a)212,013	1,459,179	(a)10,244	(a)1,559	189,227	17,608	7,836	(a)183,126
1952	18,355	960,580	228,148	1,748,913	11,279	1,554	196,386	19,422	8,104	217,378
Quarterly Averages -										
1939	5,140	411,424	70,001	387,008	3,830	767	53,706	3,384	913	37,752
1949	3,366	222,265	52,323	231,209	2,526	472	43,997	3,526	1,648	40,194
1950	4,370	217,384	56,342	354,402	2,746	466	49,446	4,136	1,632	44,961
1951	(a)4,481	(a)223,888	(a)53,003	364,795	(a)2,561	(a)390	47,307	4,402	1,959	(a)45,781
1952	4,589	245,145	57,037	437,228	2,820	369	49,097	4,856	2,026	54,345
Quarter ended -										
31st March, 1952	3,773	215,717	51,685	(a)389,167	(a)2,665	(a)289	(a)44,742	4,457	(a)2,025	51,500
30th June, 1952	4,563	240,602	(a)54,117	(a)373,359	(a)2,754	(a)537	(a)47,375	4,832	2,035	50,363
30th Sept., 1952	(a)5,559	244,072	(a)65,590	(a)470,926	(a)3,145	(a)381	(a)55,616	5,275	(a)2,101	61,350
31st Dec., 1952	4,460	280,189	56,556	515,461	2,112	347	48,653	4,858	1,943	54,165
	%	%	%	%	%	%	%	%	%	%
Percentage change, 1952 on -										
1939	(-)10.7	(-)40.4	(-)16.5	(+)13.0	(-)26.4	(-)49.3	(-)8.6	(+)43.5	(+)121.9	(+)44.0
1951	(+)2.4	(+)9.5	(+)7.6	(+)19.9	(+)10.1	(-)0.3	(+)3.8	(+)10.3	(+)3.4	(+)18.7

(a) Revised since previous issue.

(b) Total sulphur content of zinc concentrates and pyrites produced and of spent oxide roasted.

ii) **Smelter and Refinery Production of Metals:** During the year 1952 refinery output increased on the 1951 levels by 31.8 per cent. for gold, 25.9 per cent. for copper (Australian origin), by 16.5 per cent. for tin and 13.6 per cent. for zinc. Increases were also recorded in the production of lead bullion for export and of pig iron and ingot steel. On the other hand, output during 1952 was less than in 1951 by 1.4 per cent. in the case of silver, and 5.5 per cent. for refined lead.

Production during 1952 was substantially below the 1939 levels in the case of refined gold, lead, silver and tin. Output of pig iron, steel ingots and refined zinc was considerably higher in 1939.

A summary of the data relating to output of principal smelter and refinery products is shown in the following table.

TABLE 2 : SMELTER AND REFINERY PRODUCTION OF PRINCIPAL METALS : AUSTRALIA
(Excludes secondary recovery of metal (i.e. from scrap) unless otherwise stated)

Particulars	Copper (Refined) (a) tons	Gold (Refined) (b) fine oz.	Lead		Total tons
			Refined tons	In Bullion (c) tons	
Annual Totals -					
1939	17,667	(d) 2,021,254	(e) 199,437	43,955	243,392
1949	9,658	970,405	150,056	32,621	162,677
1950	13,231	925,712	160,526	37,021	197,547
1951	13,543	941,397	165,756	31,672	197,630
1952	17,052	1,240,690	156,639	37,709	194,328
Quarterly Averages -					
1939	4,467	(d) 505,314	(e) 49,659	10,989	60,648
1949	2,465	242,601	37,514	8,155	45,669
1950	3,308	231,428	40,132	9,255	49,387
1951	3,366	235,349	41,440	7,968	49,408
1952	4,263	310,223	39,160	9,426	48,582
Quarter ended -					
31st March, 1952	3,164	276,630	(f) 35,694	9,151	(f) 44,562
30th June, 1952	5,419	279,497	(f) 33,753	9,553	(f) 43,306
30th Sept., 1952	3,498	362,505	(f) 47,175	9,493	(f) 56,668
31st Dec., 1952	4,971	320,056	40,017	9,512	49,509
Percentage change, 1952 on -					
1939	(-) 4.6	(-) 36.6	(-) 21.5	(-) 14.2	(-) 20.2
1951	(+) 25.9	(+) 31.8	(-) 5.5	(+) 16.3	(-) 1.7
Particulars	Pig Iron tons	Steel Ingots tons	Silver (Refined) (g) '000 fine oz.	Tin (Refined) tons	Zinc (Refined) (h) tons
Annual Totals -					
1939	(i) 1,104,605	(i) 1,170,103	9,552	3,294	71,220
1949	1,031,372	1,149,556	5,858	1,955	80,956
1950	1,313,457	1,455,940	6,602	2,014	83,652
1951	1,331,384	1,467,152	6,978	1,429	77,010
1952	1,535,409	1,641,392	6,863	1,700	87,446
Quarterly Averages -					
1939	(i) 276,151	(i) 292,526	2,388	824	17,605
1949	257,843	287,369	1,464	469	20,239
1950	328,364	363,185	1,721	504	20,913
1951	332,646	366,768	1,745	365	19,253
1952	383,652	410,346	1,721	425	21,602
Quarter ended -					
31st March, 1952	377,305	406,232	1,622	340	21,533
30th June, 1952	309,543	309,813	1,552	465	22,383
30th Sept., 1952	405,876	452,480	(f) 1,824	443	21,656
31st Dec., 1952	442,685	472,867	1,664	452	21,874
Percentage change, 1952 on -					
1939	(+) 39.0	(+) 40.3	(-) 27.9	(-) 48.4	(+) 22.8
1951	(+) 15.3	(+) 11.5	(-) 1.4	(+) 10.2	(+) 13.0

(a) Excludes quantities refined from imported blister copper. (b) Includes quantities refined from gold bearing minerals of overseas origin; see Table 7. (c) Lead content of lead bullion produced for export. (d) Year ended 31st December, 1940. (e) Includes small quantity recovered from scrap. (f) Revised since previous issue. (g) Includes small quantities recovered from silver bearing minerals of overseas origin. (h) Includes zinc dust produced for sale and for use in the zinc refining plant. (i) Year ended 31st May, 1939.

(iii) Overseas Trade in Principal Minerals and Metals: The following table gives a brief summary of the overseas trade in principal minerals and metals for the years 1938-39, 1950, 1951, 1952 and the quarter ended 31st December, 1952. The particulars shown for metals represent total quantities of metal (in refined and unrefined form) entering into overseas trade. Detailed particulars for unrefined metallic minerals (ores, concentrates, etc.) and for refined metals in various forms are shown in Tables 8, 9 and 10.

A large proportion of copper imports, which have been at a high level in recent years, consists of blister copper which is refined in Australia. Gold imports mainly represent mine bullion imported from New Guinea and other Pacific areas, for refining in Australia. Gold exports in 1952 represent almost entirely, shipments of gold sold on overseas premium markets.

TABLE 3 : IMPORTS AND EXPORTS OF PRINCIPAL MINERALS AND METALS : AUSTRALIA

IMPORTS

Particulars	Unit of Quantity	Annual Totals				Quarter ended 31st Dec., 1952 (a)
		1938-39	1950	1951	1952 (a)	
Metals (b) -						
Copper	ton	878	25,809	27,104	28,320	4,806
Gold	fine oz.	376,417	158,891	108,913	286,257	65,969
Lead	ton	110	6	9	-	-
Iron and Steel (c)	ton	128,341	261,710	243,659	270,017	35,646
Silver	'000 f.oz.	201	75	79	123	29
Tin	ton	39	249	2,723	180	-
Zinc	ton	1,311	131	195	348	11
Coal (Black)	ton	86,970	636,219	352,734	272,352	22,129
Petroleum & Shale Oils	'000 gals.	602,761	1,310,437	1,500,065	1,492,692	362,228
Sulphur (d)	ton	115,101	191,790	99,382	111,404	44,744

EXPORTS

Particulars	Unit of Quantity	Annual Totals				Quarter ended 31st Dec., 1952
		1938-39	1950	1951	1952	
Metals (b) -						
Copper	ton	3,057	1,265	675	1,690	860
Gold	fine oz.	2,012,972	8,341	7,432	840,343	70,981
Lead	ton	232,029	167,929	153,085	195,585	66,288
Iron and Steel (c)	ton	187,767	36,765	17,690	83,223	57,683
Silver	'000 f.oz.	11,266	11,502	11,028	7,279	2,222
Tin	ton	1,765	5	41	652	198
Zinc	ton	178,654	135,992	102,673	157,205	41,296
Coal (Black)	ton	362,085	67,391	114,503	176,828	63,662
Petroleum & Shale Oils	'000 gals.	1,313	5,607	5,338	10,446	4,613
Sulphur (e)	ton	78,373	55,300	49,500	70,661	20,240

(a) Imports cleared for home consumption.

(b) Refined metal (ingots, pigs, bars, sheet, rods, tubes, etc.) plus metal content of minerals (ores, concentrates, mine bullion, etc.)

(c) Excludes iron ore.

(d) Elemental sulphur.

(e) Sulphur content of zinc concentrates exported.

DETAILED TABLES

Further particulars of the production and overseas trade in minerals, metals, and other mineral products are shown in the following tables.

TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEARS 1951 AND 1952,
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952.

Mineral	Unit of Qty.	Australia		Quarter ended 31st December, 1952							
		1951	1952	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
METALLIC MINERALS											
ANTIMONY ORE	ton	358	194	(a) 6	(a) 2	-	-	-	-	-	8
Antimony Content	ton	173	97	3	1	-	-	-	-	-	4
Gold Content	f.oz.	117	122	-	-	-	-	-	-	-	-
ANTIMONY CONCENTRATE	ton	316	283	-	-	-	-	-	-	-	-
Antimony Content	ton	(b) 62	139	-	-	-	-	-	-	-	-
Gold Content	f.oz.	7	-	-	-	-	-	-	-	-	-
BAUXITE	ton	5,084	7,228	1,160	542	-	-	-	-	-	-
Al ₂ O ₃ Content	ton	(b) 2,252	(b) 2,894	332	(b) 271	-	-	-	-	-	1,722 603
BERYLLIUM ORE	lb.	251,972	192,954	-	-	-	(c)(d)	(d)	-	-	42,361
BeO Content	lb.	30,455	23,627	-	-	-	(c)(d)	(d)	-	-	5,464
BISMUTH CONCENTRATE	lb.	15,903	7,862	-	-	-	-	-	-	-	-
Bismuth Content	lb.	2,620	3,148	-	-	-	-	-	-	-	-
WO ₃ Content	lb.	2,231	2,123	-	-	-	-	-	-	-	-
Silver Content	f.oz.	124	-	-	-	-	-	-	-	-	-
Gold Content	f.oz.	1	-	-	-	-	-	-	-	-	-
CADMIUM CARBONATE	ton	11	-	-	-	-	-	-	-	-	-
Cadmium Content	ton	5	-	-	-	-	-	-	-	-	-
CHROMITE	ton	-	773	-	-	-	-	-	-	-	-
Cr ₂ O ₃ Content	ton	-	356	-	-	-	-	-	-	-	-
COPPER ORE	ton	1,335	1,751	(d)	-	(a) 88	(c)(d)	-	-	141	259
Copper Content	ton	266	375	(d)	-	13	(c)(d)	-	-	34	54
Gold Content	f.oz.	74	360	-	-	3	-	-	-	12	15
Silver Content	f.oz.	489	6,303	(d)	-	642	(c)(d)	-	-	178	837
COPPER CONCENTRATE	ton	93,409	(b) 104,943	1,686	-	(b) 17,420	-	-	8,407	-	(b) 27,713
Copper Content	ton	15,276	15,385	321	-	1,742	-	-	1,829	-	3,892
Gold Content	f.oz.	85,796	84,317	1,186	-	17,740	-	-	3,240	-	22,166
Silver Content	f.oz.	566,119	658,028	14,456	-	6,365	-	-	140,973	-	161,794
Lead Content	ton	1,067	1,098	-	-	-	-	-	282	-	282
COPPER PRECIPITATE	ton	288	213	(a) 14	-	-	-	-	23	-	37
Copper Content	ton	197	140	10	-	-	-	-	16	-	26
Gold Content	f.oz.	15	-	-	-	-	-	-	-	-	-
Silver Content	f.oz.	10	-	-	-	-	-	-	-	-	-

See footnotes on page

TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEAR 1951 AND 1952
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)

Mineral	Unit of Qty.	Australia		Quarter ended 31st December, 1952							
		1951	1952	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
METALLIC MINERALS (CONTINUED)											
<u>FERGUSONITE</u>	lb.	-	388	-	-	-	-	-	-	-	-
<u>GOLD ORE</u>	ton	1,397	2	1	-	-	-	-	-	-	1
Gold Content	f.oz.	644	7	2	-	-	-	-	-	-	2
Silver Content	f.oz.	120	-	-	-	-	-	-	-	-	-
Copper Content	ton	1	-	-	-	-	-	-	-	-	-
<u>GOLD CONCENTRATE</u>	ton	1,653	1,055	31	298	-	-	-	(b)6	-	335
Gold Content	f.oz.	4,359	2,653	107	602	-	-	-	8	-	717
Silver Content	f.oz.	5,643	2,508	80	310	-	-	-	-	-	390
Copper Content	ton	4	1	(e)	-	-	-	-	-	-	(e)
<u>GOLD MATTE</u>	ton	1	1	(a)(e)	-	-	-	-	-	-	(e)
Gold Content	f.oz.	53	58	24	-	-	-	-	-	-	24
Silver Content	f.oz.	876	924	355	-	-	-	-	-	-	355
Copper Content	ton	(e)	1	(e)	-	-	-	-	-	-	(e)
<u>GOLD SLAG</u>	ton	6	7	(a)3	-	-	-	-	-	-	3
Gold Content	f.oz.	291	268	77	-	-	-	-	-	-	77
Silver Content	f.oz.	99	33	33	-	-	-	-	-	-	33
Copper Content	ton	(e)	-	-	-	-	-	-	-	-	-
<u>GOLD CLASSIFIER SANDS</u>	ton	1	24	(a)24	-	-	-	-	-	-	24
Gold Content	f.oz.	24	277	277	-	-	-	-	-	-	277
Silver Content	f.oz.	2	-	-	-	-	-	-	-	-	-
<u>GOLD - OTHER FORMS (f)</u>	oz.	(g)	(g)	5,347	21,504	(g)	(g)	(g)	-	(g)	(g)
Gold Content	f.oz.	739,632	879,932	4,975	18,616	4,878	136	213,085	-	12,427	254,117
Silver Content	f.oz.	201,722	202,646	209	1,388	2,390	-	55,438	-	-	59,425
<u>ILMENITE CONCENTRATE</u>	ton	1,233	31	(a)5	-	-	-	-	-	-	5
Ilmenite Content	ton	728	27	2	-	-	-	-	-	-	2
<u>IRON ORE</u>	ton	2,436,229	2,907,754	-	-	-	724,791	129,579	-	-	854,370
Iron Content	ton	(b)1,459,179	(b)1,748,913	-	-	-	(b)434,800	80,661	-	-	(b)515,461

See footnotes on page

TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEAR 1951 AND 1952
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)

Mineral	Unit of Quantity	Australia		Quarter ended 31st December, 1952								
		1951	1952	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia	
METALLIC MINERALS (CONTINUED)												
IRON OXIDE												
For Gas Purification	ton	12,264	12,795	699	-	-	-	-	-	2	-	701
For Fluxing and Other Purposes ..	ton	5,448	4,155	-	-	-	-	-	-	-	-	-
LEAD - SILVER ORE	ton	12,810	7,865	(a)1,874	-	(a)(b)110	-	-	1,146	-	-	1,146
Lead Content ..	ton	2,962	2,261	309	-	-	-	(a)423	-	-	-	2,407
Antimony Content ..	ton	1	3	-	-	52	-	294	-	-	-	655
Silver Content ..	f.os.	148,798	74,663	19,759	-	-	-	-	-	-	-	-
Gold Content ..	f.os.	15	10	-	-	1,240	-	-	-	-	-	-
Copper Content ..	ton	-	11	-	-	-	-	2,547	-	-	-	23,546
Cadmium Content ..	ton	-	1	-	-	-	-	-	-	-	-	-
LEAD - SILVER-ZINC ORE	ton	49	317	-	-	-	-	-	-	-	-	-
Lead Content ..	ton	22	133	-	-	-	-	(a) 92	-	-	-	-
Silver Content ..	f.os.	349	2,286	-	-	-	-	40	-	-	-	92
Zinc Content ..	ton	7	46	-	-	-	-	689	-	-	-	40
LEAD CONCENTRATE (h)	ton	342,400	377,610	58,475	-	-	-	12	-	-	-	689
Lead Content ..	ton	204,094	220,746	41,402	-	30,042	(d)	(d)	2,855	-	-	12
Silver Content ..	f.os.	8,954,390	9,947,527	1,519,687	-	10,248	(d)	(d)	1,633	-	-	93,011
Gold Content ..	f.os.	7,264	7,284	1,576	-	799,243	(d)	(d)	115,174	-	-	54,524
Antimony Content ..	ton	488	502	121	-	8	-	-	463	-	-	2,434,365
Copper Content ..	ton	1,874	2,159	422	-	-	-	-	-	-	-	2,047
Cadmium Content ..	ton	(i)45	46	11	-	-	-	-	-	-	-	121
Zinc Content ..	ton	-	1	-	-	-	-	-	-	-	-	422
LEAD SLAG	ton	63	54	-	-	-	-	-	-	-	-	11
Lead Content ..	ton	8	5	-	-	-	-	-	-	-	-	-
Silver Content ..	f.os.	445	415	-	-	-	-	-	-	-	-	-

See footnotes on page 17.

TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEAR 1951 AND 1952
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)

Mineral	Unit of Quantity	Australia		Quarter ended 31st December, 1952							
		1951	1952	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
METALLIC MINERALS (CONTINUED)											
<u>MANGANESE ORE</u>											
Metallurgical Grade	ton	6,311	5,904	(a)301	-	-	-	(a)288	-	-	589
Manganese Content	ton	3,042	2,703	148	-	-	-	142	-	-	290
Battery Grade ..	ton	1,543	574	(a)117	-	-	-	-	-	-	117
MnO ₂ Content ..	ton	1,146	422	93	-	-	-	-	-	-	93
Other Grades ..	ton	115	56	-	-	-	-	-	-	-	-
MnO ₂ Content ..	ton	70	40	-	-	-	-	-	-	-	-
<u>MOLYBDENITE CONCENTRATE</u>	lb.	4,658	336	-	-	-	-	-	-	-	-
MoS ₂ Content ..	lb.	3,048	(b)303	-	-	-	-	-	-	-	-
<u>MONAZITE CONCENTRATE</u>	ton	32	88	(a)64	-	-	-	-	-	-	64
Monazite Content ..	ton	30	81	59	-	-	-	-	-	-	59
<u>OSMIRIDIUM - NATIVE</u>	oz.	33	51	-	-	-	-	-	11	-	11
<u>PLATINUM CONCENTRATE</u>	oz.	13	-	-	-	-	-	-	-	-	-
Platinum Content ..	oz.	8	-	-	-	-	-	-	-	-	-
Palladium Content ..	oz.	(e)	-	-	-	-	-	-	-	-	-
Osmiridium Content	oz.	1	-	-	-	-	-	-	-	-	-
Gold Content ..	f.oz.	1	-	-	-	-	-	-	-	-	-
<u>PYRITIC ORE</u>	ton	13,165	11,397	-	-	-	-	(a)4,883	-	-	4,883
Sulphur Content ..	ton	4,027	3,840	-	-	-	-	(j)1,750	-	-	1,750
<u>PYRITES CONCENTRATE</u>	ton	128,281	187,386	5,033	-	12,950	-	(a)12,746	15,536	-	46,265
Sulphur Content ..	ton	62,025	89,687	2,466	-	6,101	-	(j)5,739	(b)7,675	-	21,981
<u>RUTILE CONCENTRATE</u>	ton	35,189	38,140	5,666	-	(a)4,024	-	-	-	-	9,690
TiO ₂ Content ..	ton	33,432	13,204	5,480	-	3,908	-	-	-	-	9,388
<u>SILVER ORE</u>	ton	111	3	(a)(k)3	-	-	-	-	-	-	(k)3
Silver Content ..	f.oz.	4,420	6,918	4,217	-	-	-	-	-	-	4,217
Gold Content ..	f.oz.	11	-	-	-	-	-	-	-	-	-

See footnotes on page 17.

TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEAR 1951 AND 1952
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)

Mineral	Unit of Qty.	Australia		Quarter ended 31st December, 1952							
		1951	1952	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	AUSTRALIA
METALLIC MINERALS (CONTINUED)											
<u>TANTALITE - COLUMBITE</u>											
CONCENTRATE	lb.	5,125	15,720	-	-	-	-	(a)1,221	-	-	1,221
Ta ₂ O ₅ + Nb ₂ O ₅ Content	lb.	3,902	10,924	-	-	-	-	883	-	-	883
<u>TIN CONCENTRATE</u>											
Tin Content	ton	2,213	2,235	(a)135	16	(a)14	-	(a)22	321	4	512
Gold Content	ton	1,559	1,558	96	12	(b)10	-	15	212	2	347
WO ₃ Content	f.oz.	560	337	-	-	-	-	-	45	-	45
	ton	6	5	1	-	-	-	-	-	-	1
<u>TUNGSTEN CONCENTRATES</u>											
Scheelite Concentrate	ton	1,031	669	(a)2	-	(a)6	-	(a)1	318	-	327
WO ₃ Content	ton	632	407	2	-	4	-	1	192	-	199
Wolfram Concentrate	ton	697	889	(a)4	1	(a)44	-	(a)8	88	111	256
WO ₃ Content	ton	467	575	3	(a)	29	-	5	61	71	169
<u>ZINC ORE</u>											
Zinc Content	ton	65	-	-	-	-	-	-	-	-	-
	ton	27	-	-	-	-	-	-	-	-	-
<u>ZINC CONCENTRATE</u>											
Zinc Content	ton	358,822	376,548	69,199	-	11,483	-	-	12,143	-	92,825
Lead Content	ton	189,191	196,339	35,904	-	5,856	-	-	(b)6,881	-	48,641
Silver Content	f.oz.	3,860	3,905	810	-	-	-	-	245	-	1,055
Gold Content	f.oz.	360,084	355,305	61,881	-	-	-	-	27,312	-	89,193
Copper Content	f.oz.	2,687	2,849	362	-	-	-	-	340	-	702
Sulphur Content	ton	308	283	66	-	-	-	-	-	-	66
Cadmium Content	ton	113,964	119,640	21,937	-	(b)3,675	-	-	(b)3,886	-	29,498
Cobalt Content	ton	555	583	133	-	-	-	-	11	-	144
Manganese Content	ton	42	50	13	-	-	-	-	-	-	13
	ton	3,435	3,496	824	-	-	-	-	-	-	824
<u>ZIRCON CONCENTRATE</u>											
Zircon Content	ton	42,410	27,171	(a)3,534	-	(a)2,310	-	-	-	-	5,844
	ton	41,420	26,852	3,483	-	2,268	-	-	-	-	5,751

See footnotes on page 17.

TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEAR 1951 AND 1952
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)

Mineral	Unit of Qty.	Australia		Quarter ended 31st December, 1952							N.T.	AUSTRALIA
		1951	1952	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.			
FUEL MINERALS												
COAL, BLACK												
Semi Anthracite	ton	82,426	85,453	-	-	20,392	-	-	215	-	-	20,607
Bituminous	ton	16,029,615	17,724,616	3,744,857	39,368	581,496	-	-	56,821	-	-	4,422,542
Sub-Bituminous	ton	1,496,387	1,611,843	4,240	-	90,105	87,194	232,980	-	-	-	414,519
Total Black Coal	ton	17,608,428	19,421,912	3,749,097	39,368	691,993	87,194	232,980	57,036	-	-	4,857,668
COAL, BROWN (inc. Lignite)	ton	7,836,056	8,103,764	-	1,942,663	-	-	-	-	-	-	1,942,663
OIL (PETROLEUM) - Crude	gal.	68,180	-	-	-	-	-	-	-	-	-	-
SHALE - OIL BEARING	ton	78,564	21,661	-	-	-	-	-	-	-	-	-
Crude Oil Content	gal.	3,299,553	1,568,013	-	-	-	-	-	-	-	-	21,661 1,568,013
NON-METALLIC MINERALS (1)												
ALUNITE	ton	(1)449	314	-	-	-	-	-	-	-	-	-
Potash Content	ton	34	24	-	-	-	-	-	-	-	-	-
ASBESTOS												
Chrysotile - Fibre	ton	}	1,159	1,119	127	-	-	197	-	-	-	324
Fines	ton											
Crocidolite - Fibre	ton	1,399	2,940	-	-	-	-	782	-	-	-	782
BARITE	ton	6,178	4,626	63	-	-	694	-	-	-	-	757
CLAYS												
Bentonite	ton	449	586	-	-	-	-	30	-	-	-	30
Bentonitic Clay	ton	618	(1)112	(g)	-	(g)	-	-	-	-	-	(g)
Brick Clay and Shale	ton	3,137,048	(1)1,631,200	(b)288,142	(g)	(g)	(g)	9,947	(g)	-	-	(b)(1)298,089
Cement Clay and Shale	ton	(1)100,069	(1)15,310	(g)	(g)	(g)	(g)	(g)	(g)	-	-	(g)
Damouritic Clay	ton	505	(d)	-	-	-	(1)	-	-	-	-	(d)
Fireclay n.e.i.	ton	(1)96,201	(1)9,608	(g)	(g)	(g)	(g)	2,768	(g)	-	-	(1)2,768
Fuller's Earth	ton	60	64	(g)	-	-	-	-	-	-	-	(g)
Kaolin	ton	44,088	(1)10,227	(g)	327	(g)	(g)	(g)	2,894	-	-	(1)3,221
Stoneware Clay	ton	(1)102,418	(1)9,468	(g)	(g)	(g)	(g)	(g)	(g)	-	-	(g)

See footnotes on page 17.

STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)

See footnotes on page 17.

TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEAR 1951 AND 1952
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)

Mineral	Unit of Qty.	Australia		Quarter ended 31st December, 1952							
		1951	1952	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	AUSTRALIA
NON-METALLIC MINERALS (1) (CONTINUED)											
<u>LIMESTONE (inc. Shell and Coral) (m)</u>	ton	(1) 2,521,158	(1) 1,832,365	318,567	140,794	8,102	(g)	(g)	45,157	36	(1) 512,656
<u>MAGNESITE</u>											
Crude	ton	38,134	47,676	10,980	6	-	(d)	(d)	-	-	11,796
<u>MICA</u>											
Muscovite - Trimmed ..	lb.	48,034	71,928	-	-	-	-	-	-	16,312	16,312
Crude and Film ..	lb.	2,634									
Scrap ..	lb.	82,880									
<u>MINERAL PIGMENTS</u>											
Red Ochre ..	ton	851	584	-	-	-	(d)	(d)	2	-	299
Yellow Ochre ..	ton	1,136	98	-	-	-	-	-	-	-	-
Other ..	ton	109	12	-	-	-	-	-	-	-	-
<u>PEBBLES, for grinding</u> ..	ton	883	385	(d)	-	-	(d)	-	-	-	72
<u>PHOSPHATE ROCK</u> ..	ton	7,929	(d)	(g)	-	-	(d)	-	-	-	(d)
<u>PYROPHYLLITE</u> ..	ton	552	157	61	-	-	-	-	-	-	61
<u>QUARTZ CRYSTALS</u> ..	lb.	60	355	-	-	-	-	-	-	-	-
<u>SALT</u>	ton	(b) 300,000	(g)	-	(g)	(g)	(g)	(g)	-	-	(g)
<u>SERPENTINE</u> - for refractories	ton	479	175	-	-	-	-	-	-	-	-
<u>SILICA (Glass, Chemical etc.)</u>	ton	(1) 142,354	(1) 41,773	3,174	(g)	(g)	4,408	1,859	2,241	-	(1) 11,682
<u>SILLIMANITE</u> ..	ton	871	1,333	(d)	-	-	(d)	-	-	-	424
<u>SLATE (m)</u> ..	ton	85	136	61	-	-	-	-	-	-	61
<u>TALC (inc. Steatite)</u> ..	ton	12,597	7,492	227	-	-	898	360	-	-	1,485

See footnotes on page 17.

**TABLE 4 - QUANTITIES AND CONTENTS (OR GRADE) OF MINERALS PRODUCED : AUSTRALIA, YEAR 1951 AND 1952
STATES AND AUSTRALIA, QUARTER ENDED 31ST DECEMBER, 1952 (CONTINUED)**

Mineral	Unit of Qty.	Australia		Quarter ended 31st December, 1952							AUSTRALIA
		1951	1952	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	
NON-METALLIC MINERALS (1) (CONTINUED)											
VERMICULITE	ton	55	-	-	-	-	-	9	-	-	9
ZINCIFEROUS ORE - For Fertilizer	ton	11	62	-	-	-	-	-	-	-	-
Average Grade	% Zn.	12	(b)12	-	-	-	-	-	-	-	-

FOOTNOTES:-

- (a) Despatches from the mine (or sales) as distinct from production.
- (b) Estimated.
- (c) Includes quantity not previously reported.
- (d) Not available for publication; included in total for Australia.
- (e) Less than half the unit of quantity shown.
- (f) Bullion, alluvial gold, retorted gold, etc.
- (g) Not available.
- (h) Includes a small amount of lead concentrate from Mill Salvage and Slime Dumps.
- (i) Incomplete.
- (j) Actual recoveries.
- (k) Silver sludge.
- (l) Excludes construction materials (sand, gravel, building stone, etc.) complete particulars for which are not available.
- (m) Excludes quantities used directly as a building or road material.

TABLE 5 : PRINCIPAL CONTENTS OF METALLIC MINERALS PRODUCED : AUSTRALIA, 1951 AND 1952, STATES AND AUSTRALIA
QUARTER ENDED 31ST DECEMBER, 1952

Mineral in which contained	Contents of Metallic Minerals Produced									
	Australia		Quarter ended 31st December, 1952							
	1951	1952	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	AUSTRALIA
<u>ANTIMONY (ton)</u>										
Antimony Ore ..	173	97	3	1	-	-	-	-	-	4
Antimony Concentrate ..	(a)82	139	-	-	-	-	-	-	-	-
Lead Concentrate (b) ..	488	502	121	-	-	-	-	-	-	121
Other Minerals ..	1	3	-	-	-	-	-	-	-	-
Total:	744	741	124	1	-	-	-	-	-	125
<u>BISMUTH (lb)</u>										
Bismuth Concentrate ..	2,620	3,148	-	-	-	-	-	-	-	-
<u>CADMIUM (ton)</u>										
Cadmium Carbonate ..	5	-	-	-	-	-	-	-	-	-
Lead Concentrate ..	45	46	11	-	-	-	-	-	-	11
Zinc Concentrate ..	555	583	133	-	-	-	-	11	-	144
Total:	605	629	144	-	-	-	-	11	-	155
<u>COBALT (ton)</u>										
Zinc Concentrate ..	42	50	13	-	-	-	-	-	-	13
<u>COPPER (ton)</u>										
Copper Concentrate ..	15,276	15,385	321	-	1,742	-	-	1,829	-	3,892
Lead Concentrate (b) ..	1,874	2,159	422	-	-	-	-	-	-	422
Other Minerals ..	776	811	(c)	-	13	(c)	-	16	34	146
Total:	17,926	18,355	(c)	-	1,755	(c)	-	1,845	34	4,460
<u>GOLD (f.oz)</u>										
Copper Concentrate ..	85,796	84,317	1,186	-	17,740	-	-	3,240	-	22,166
Gold Ore, Concentrate, Bullion etc.	799,003	883,195	5,462	19,218	4,878	136	213,085	8	12,427	255,214
Lead Concentrate ..	7,264	7,784	1,576	-	8	-	-	463	-	2,047
Other Minerals ..	3,488	5,284	362	-	3	-	-	385	12	762
Total:	895,551	980,580	8,586	19,218	22,629	136	213,085	4,096	12,439	280,189

See footnotes on page 20.

TABLE 5 : PRINCIPAL CONTENTS OF METALLIC MINERALS PRODUCED (Continued)

Mineral in which contained	Contents of Metallic Minerals Produced									
	Australia		Quarter ended 31st December, 1952							
	1951	1952	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	AUSTRALIA
<u>IRON (ton)</u>										
Iron Ore	(a) 1,459,179	(a) 1,748,913	-	-	-	(a) 434,800	80,661	-	-	(a) 515,461
<u>LEAD (ton)</u>										
Lead Concentrate (b) ..	204,094	220,746	41,402	-	10,248	(c)	(c)	1,633	-	54,524
Zinc Concentrate ..	3,860	3,905	810	-	-	-	-	245	-	1,055
Other Minerals ..	4,059	3,497	309	-	52	-	334	282	-	977
Total:	212,013	228,148	42,521	-	10,300	(c)	(c)	2,160	-	56,556
<u>SILVER (f.oz.)</u>										
Copper Concentrate ..	566,119	658,028	14,456	-	6,365	-	-	140,973	-	161,794
Gold Ore, Concentrate, Bullion etc.	208,463	206,111	677	1,698	2,390	-	55,438	-	-	60,203
Lead Concentrate (b) ..	8,954,390	9,947,527	1,519,687	-	799,243	(c)	(c)	115,174	-	2,434,365
Zinc Concentrate ..	360,084	355,305	61,881	-	-	-	-	27,312	-	89,193
Other Minerals ..	154,635	90,585	23,993	-	1,882	-	3,236	-	178	29,289
Total:	10,243,691	11,257,556	1,620,694	1,698	809,880	(c)	(c)	283,459	178	2,774,844
<u>SULPHUR (c) (ton)</u>										
Pyrites Ore and Concentrate ..	66,052	93,527	2,466	-	6,101	-	7,489	7,675	-	23,731
Zinc Concentrate ..	113,964	119,640	21,937	-	3,675	-	-	3,886	-	29,498
Total:	180,016	213,167	24,403	-	9,776	-	7,489	11,561	-	53,229
<u>TIN (ton)</u>										
Tin Concentrate ..	1,559	1,558	96	12	(a) 10	-	15	212	2	347
<u>TUNGSTEN (ton : in Terms of WO₃)</u>										
Bismuth Concentrate ..	1	1	-	-	-	-	-	-	-	-
Tin Concentrate ..	6	5	1	-	-	-	-	-	-	1
Scheelite Concentrate ..	632	407	2	-	4	-	1	192	-	199
Wolfram Concentrate ..	467	575	3	(d)	29	-	5	61	71	169
Total:	1,106	988	6	(d)	33	-	6	253	71	369

See footnotes on page 20.

TABLE 5 : PRINCIPAL CONTENTS OF METALLIC MINERALS PRODUCED (Continued)

Minerals in which contained	Contents of Metallic Minerals Produced									
	Australia		Quarter ended 31st December, 1952							
	1951	1952	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
<u>ZINC (ton)</u>										
Zinc Concentrate ..	189,191	196,339	35,904	-	5,856	-	-	(a)6,881	-	48,641
Other Minerals ..	36	47	-	-	-	-	12	-	-	12
Total:	189,227	196,386	35,904	-	5,856	-	12	(a)6,881	-	48,653

(a) Estimated.

(b) Includes a small amount of Lead Concentrate from Mill Salvage and Slime Dumps.

(c) Not available for publication; included in total for Australia.

(d) Less than half the unit of quantity shown.

(e) For particulars of sulphur from Spent Oxide recovered in acid manufacture, see Table 10.

TABLE 6 : RECORDED VALUES OF MINERAL PRODUCTION : STATES AND AUSTRALIA,
YEARS, 1939, 1950, 1951, 1952 AND QUARTER ENDED 31ST DECEMBER, 1952

21.

(Note: The following table shows the values of mineral production, as recorded; see preface).

State or Territory	1939	1950 (a)	1951 (a)	1952 (a)(b)	Quarter ended 31st Dec. 1952 (a)(b)
METALLIC MINERALS (£'000)					
New South Wales ..	5,169	24,591	35,350	31,628	6,652
Victoria ..	1,589	1,079	1,064	1,093	312
Queensland ..	3,371	12,788	15,713	16,888	3,790
South Australia ..	3,003	2,728	2,775	3,099	837
Western Australia ..	11,884	9,893	11,181	13,130	3,863
Tasmania ..	1,902	4,859	8,163	9,756	2,678
Northern Territory ..	228	628	916	1,260	382
Australia:	27,146	56,566	75,162	76,854	18,514
FUEL MINERALS (£'000)					
New South Wales ..	7,041	22,306	29,507	44,687	10,985
Victoria ..	646	2,091	3,359	4,230	1,060
Queensland ..	1,168	3,562	4,490	7,973	2,010
South Australia ..	-	131	400	429	89
Western Australia ..	363	1,185	1,717	2,457	712
Tasmania ..	74	232	305	342	78
Australia:	9,292	29,507	39,778	60,118	14,934
NON-METALLIC MINERALS (c) (£'000)					
New South Wales ..	178	1,196	1,494	1,300	339
Victoria ..	13	405	503	357	104
Queensland ..	19	104	221	29	(d)
South Australia ..	317	1,053	1,359	261	(d)
Western Australia ..	42	389	469	698	170
Tasmania ..	81	257	171	170	46
Northern Territory ..	16	73	71	125	23
Australia:	666	3,477	4,288	2,960	(d)
TOTAL (c) (£'000)					
New South Wales ..	12,388	48,093	66,351	77,635	17,976
Victoria ..	2,248	3,575	4,926	5,680	1,476
Queensland ..	4,558	16,454	20,424	24,890	(d)
South Australia ..	3,320	3,912	4,534	3,789	(d)
Western Australia ..	12,289	11,467	13,367	16,285	4,745
Tasmania ..	2,057	5,348	8,639	10,268	2,802
Northern Territory ..	244	701	987	1,385	405
Australia:	37,104	89,550	119,228	139,932	(d)

(a) Because of revised methods adopted in the collection and presentation of mineral statistics, these values are not strictly comparable with those for 1949 and earlier years.

(b) Subject to revision.

(c) Excludes Construction Materials.

(d) Not available.

**TABLE 7 : SMELTER AND REFINERY PRODUCTION OF METALS : AUSTRALIA, YEARS
1939, 1950, 1951 AND 1952 AND THE QUARTER ENDED 31ST DECEMBER, 1952.**

(Note: Particulars shown in the table exclude secondary recovery of metal (i.e. from scrap) unless otherwise stated).

Period	Gold (Refined)		Total	Silver (Refined) (a)	Copper (Refined) (b)	Zinc (Refined) (c)
	Australian Origin fine oz.	Oversea Origin fine oz.		(a) fine oz.	(b) tons	(c) tons
Year ended 31st December -						
1939	(d) 1,637,031	(a) 384,223	(a) 2,021,254	9,552,411	17,867	71,220
1950	844,161	81,551	925,712	6,882,028	13,231	83,652
1951	850,236	91,161	941,397	6,978,191	13,543	77,010
1952 - (e)						
Month of January	74,283	19,006	93,289	535,411	1,437	7,296
" " February	66,996	25,455	94,451	563,521	677	6,844
" " March	78,658	12,432	91,090	523,182	1,050	7,393
Quarter ended - 31st March	221,937	56,893	278,830	1,622,114	3,164	21,533
Month of April	71,901	9,934	81,835	491,840	1,511	7,429
" " May	75,937	27,179	103,116	615,621	1,387	7,729
" " June	74,114	20,432	94,546	444,559	2,521	7,225
Quarter ended - 30th June	221,952	57,545	279,497	1,552,020	5,419	22,383
Month of July	87,176	16,109	103,285	431,626	788	7,269
" " August	84,846	26,372	111,218	804,389	1,633	7,315
" " September	126,310	21,692	148,002	588,416	1,077	7,072
Quarter ended - 30th September	298,332	64,173	362,505	1,824,431	3,498	21,656
Month of October	88,205	18,589	106,794	755,586	1,788	7,338
" " November	84,850	24,394	109,244	605,337	2,250	7,116
" " December	84,769	19,251	104,020	523,053	933	7,420
Quarter ended - 31st December	257,824	62,234	320,058	1,883,976	4,971	21,874
Year : 1952	1,000,045	240,845	1,240,890	6,882,541	17,052	87,446

(a) Includes small quantities recovered from imported materials.

(b) Excludes quantities refined from imported blister copper.

(c) Includes zinc dust produced for sale and for use in zinc refining plant.

(d) Year ended 31st December, 1940.

(e) Subject to revision.

TABLE 7 : SMELTER AND REFINERY PRODUCTION OF METALS : AUSTRALIA (CONTINUED)

(Note : Particulars shown in the table exclude secondary recovery of metal (i.e. from scrap) unless otherwise stated).

Period	Tin (Refined) tons	Lead (Refined) tons	Lead Content of Lead Bullion (a) tons	Iron (Pig) tons	Steel (Ingot) tons
Year ended 31st December -					
1939 ..	3,294	(b)199,437	43,955	(c)1,104,605	(c)1,170,103
1950 ..	2,014	160,526	37,021	1,313,457	1,455,940
1951 ..	1,452	165,758	31,872	1,331,384	1,467,152
1952 ..	(d)		(d)	(d)	(d)
Month of January	149	(e)13,187	3,054	129,807	140,098
" " February	86	(e)11,287	3,103	119,358	128,552
" " March	105	(e)11,220	2,994	128,140	137,582
Quarter ended 31st March	340	(e)35,694	9,151	377,305	406,232
Month of April	189	(e)12,103	3,188	119,849	118,067
" " May	72	(e)14,564	3,063	96,659	92,056
" " June	204	(e)7,086	3,302	93,035	99,690
Quarter ended 30th June	465	(e)33,753	9,553	309,543	309,813
Month of July	213	(e)15,434	3,287	122,251	147,216
" " August	107	(e)16,546	2,994	133,245	153,121
" " September	123	(e)15,195	3,212	150,380	152,143
Quarter ended 30th Sept.	443	(e)47,175	9,493	405,876	452,480
Month of October	193	15,017	3,396	157,766	166,002
" " November	103	15,369	3,068	144,232	154,507
" " December	156	9,631	3,048	140,687	152,358
Quarter ended 31st December	452	40,017	9,512	442,685	472,867
Year : 1952	1,700	156,639	37,709	1,535,409	1,641,392

- (a) Exported as Lead Bullion; Lead Content 99.3%.
 (b) Includes small quantities recovered from scrap.
 (c) Year ended 31st May, 1939.
 (d) Subject to revision.
 (e) Revised since previous issue.

**TABLE 8 - IMPORTS (Cleared for Home Consumption) of Minerals,
Mineral Products and Metals, from Principal Countries of Origin:
AUSTRALIA, QUARTER AND YEAR ENDED 31ST DECEMBER, 1952**

Item and Country of Origin	Quarter ended 31st December, 1952		Year ended 31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
METALLIC GROUP				
<u>Aluminium:-</u>	ton		ton	
Ore (Bauxite) ..	-	-	-	-
Ingot				
Canada ..	1,000	204,740	4,942	904,148
Other ..	703	147,304	3,278	672,494
Total:	1,703	352,044	8,220	1,576,642
Rods, Bars etc.				
United Kingdom ..	36	11,152	674	88,089
Other ..	10	15,554	119	23,319
Total:	46	26,706	793	111,408
Plates, Sheets etc.				
United Kingdom ..	557	246,336	3,114	1,105,014
Other ..	54	25,878	736	358,643
Total:	611	272,214	3,850	1,463,657
Scrap ..	-	-	88	4,821
<u>Antimony:-</u>				
Ores and Concentrates				
South Africa ..	-	-	510	99,146
Other ..	-	-	-	-
Total:	-	-	510	99,146
Metal				
United Kingdom ..	8	2,340	14	4,513
<u>Arsenic:-</u>				
Trioxide				
Sweden ..	88	6,404	2,075	173,651
Other ..	329	17,969	534	37,095
Total:	417	24,373	2,609	210,746
<u>Bismuth:-</u>	lb.		lb.	
Metal				
United Kingdom ..	9,270	11,085	23,052	32,986
Other ..	-	-	10,000	12,144
Total:	9,270	11,085	33,052	45,130
<u>Chromium:-</u>	ton		ton	
Ores and Concentrates				
New Caledonia ..	-	-	4,733	59,572
Other ..	-	-	1,510	14,959
Total:	-	-	6,243	74,531
<u>Copper:-</u>				
Ores and Concentrates	13	482	16	574

TABLE 8 - IMPORTS (CLEARED FOR HOME CONSUMPTION) OF MINERALS,
MINERAL PRODUCTS AND METALS (Continued)

25.

Item and Country of Origin	Quarter ended		Year ended	
	31st December, 1952		31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
METALLIC GROUP (Cont'd.)				
Copper (Cont'd.)	ton		ton	
Pigs, Ingots, etc.				
Belgian Congo	500	174,160	9,166	2,677,023
Northern Rhodesia	2,853	961,928	10,452	3,050,654
Other	316	164,080	4,588	1,722,696
Total:	3,669	1,300,168	24,206	7,450,373
Bars, Rods, etc.				
Belgium	-	-	300	115,982
Other	809	279,406	1,873	647,575
Total:	809	279,406	2,173	763,557
Plates, Sheets, etc.				
United Kingdom	257	100,232	651	246,788
Other	6	3,583	281	153,477
Total:	263	103,815	932	400,265
Pipes, Tubes, etc.				
United Kingdom	48	32,208	305	174,861
Other	19	12,872	704	433,377
Total:	67	45,080	1,009	608,238
Scrap				
New Guinea	-	-	30	6,118
Other	7	1,364	12	2,548
Total:	7	1,364	42	8,666
Gold:-	Fine oz.		Fine oz.	
Bar, Dust, Ingots, Sheet				
New Guinea	35,538	527,821	143,216	2,192,045
New Zealand	5,059	79,982	55,480	852,373
Other	25,372	421,147	87,561	1,442,993
Total:	65,969	1,028,950	286,257	4,487,411
Iron and Steel:-	ton		ton	
Ore	(a)	2	2,835	3,106
Pig				
United Kingdom	-	-	-	-
Belgium	-	-	1,291	53,584
France	-	-	1	191
Germany, Fed. Republic of,	-	-	1,576	63,854
Other	-	-	(b) 3,364	119,293
Total:	-	-	6,232	236,922
Ferromanganese				
United Kingdom	15	2,185	21	4,485
France	15	1,734	25	3,280
Total:	30	3,919	46	7,765
Ingots and Billets (high grade carbon and alloy steels)				
United Kingdom	3	540	14	8,315
Other	190	18,823	660	69,899
Total:	193	19,363	674	78,214

(a) Less than half the unit of quantity shown.

(b) Includes U.S.A. (2319 tons valued at £66,731).

**TABLE 8 - IMPORTS (Cleared for Home Consumption) of Minerals,
MINERAL PRODUCTS AND METALS (Continued)**

Item and Country of Origin	Quarter ended 31st December, 1952		Year ended 31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
METALLIC GROUP (Cont'd.)				
Iron and Steel (Cont'd)	ton		ton	
Ingots and Billets (other)				
United Kingdom	100	9,075	226	20,278
Other	-	-	1,642	126,742
Total:	100	9,075	1,868	147,020
Bars and Rods (stainless)				
United Kingdom	218	32,076	718	106,090
Other	36	16,771	830	141,940
Total:	254	48,847	1,548	248,030
Bars and Rods (other)				
United Kingdom	3,512	424,181	16,781	1,717,316
Belgium	680	54,492	23,743	1,701,622
France	804	60,723	10,117	569,515
Germany (Fed. Republic of)	352	41,902	4,965	382,746
Japan	497	27,859	28,582	1,891,153
Other	264	97,872	12,912	1,194,025
Total:	6,109	707,029	97,100	7,456,377
Terne Plates and Sheets				
United Kingdom	-	-	321	38,470
Belgium	-	-	25	4,171
United States of America	22	1,862	1,234	125,350
Total:	22	1,862	1,580	167,991
Tinplate (other)				
United Kingdom	19,577	2,211,909	79,116	9,140,010
Japan	20	1,962	10,084	1,651,955
United States of America	9,366	933,101	71,802	4,707,725
Other	5	144	13	358
Total:	28,968	3,147,116	161,015	15,500,048
Manganese:-				
Ore (Metallurgical)				
Oxide				
United Kingdom	17	1,620	28	2,669
Other	-	-	1	204
Total:	17	1,620	29	2,873
Mercury:-	lb.		lb.	
Italy	4,742	5,186	9,304	10,633
Spain	8,165	12,238	28,925	38,872
Other	2,156	2,519	7,963	9,850
Total:	15,063	19,943	46,192	59,355
Nickel:-	ton		ton	
Pigs, Ingots, etc.				
United Kingdom	186	105,500	582	334,819
Other	4	2,065	31	10,534
Total:	190	107,565	613	345,353

(a) Less than half the unit of quantity shown.

**TABLE 8 - IMPORTS (CLEARED FOR HOME CONSUMPTION) OF MINERALS,
MINERAL PRODUCTS AND METALS (Continued)**

Item and Country of Origin	Quarter ended 31st December, 1952		Year ended 31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
METALLIC GROUP (Cont'd)				
Nickel:- (Cont'd.)	ton		ton	
Bars, Rods, etc.				
United Kingdom	1	879	5	5,439
Canada	-	-	6	4,943
United States of America ..	(a)	15	(a)	482
Total:	1	894	11	10,864
Platinum:-	oz.		oz.	
Blocks, etc.				
United Kingdom	68	2,332	307	11,135
Hong Kong	-	-	132	4,750
Total:	68	2,332	439	15,885
Platinum Group Metals				
United Kingdom	43	407	179	1,894
Silver:-	fine oz.		fine oz.	
Bars, Ingots, etc.				
New Guinea	10,883	3,964	55,439	20,714
New Zealand	8,891	3,230	15,133	5,510
Other	8,939	3,373	52,668	19,985
Total:	28,713	10,567	123,240	46,209
Tin:-	ton		ton	
Ingots				
United Kingdom	-	-	5	6,190
Malaya	-	-	175	207,714
Other	-	-	(a)	21
Total:	-	-	180	213,925
Titanium Oxide:-				
United Kingdom	52	8,177	606	107,785
Other	20	3,864	977	306,014
Total:	72	12,041	1,583	413,799
Zinc:-				
Blocks, Plates, Sheets, etc.	11	6,856	348	62,798
FUEL GROUP				
Coal:-	ton		ton	
United Kingdom	-	-	2,764	22,404
India	22,129	72,436	208,585	687,704
South Africa	-	-	60,993	190,287
Other	-	-	10	96
Total:	22,129	72,436	272,352	900,491
Petroleum and Shale Oils:-	'000 gal.		'000 gal.	
Crude	63,014	2,179,657	175,314	7,395,924
Aviation, Motor and other Spirits	150,106	8,822,274	631,367	36,212,248
Residual Oil	82,694	2,899,268	356,283	11,521,727
Other	66,414	4,017,089	329,729	21,673,216
Total:	362,228	17,918,288	1,492,693	76,803,115
NON-METALLIC GROUP				
Asbestos:-	ton		ton	
Chrysotile				
Canada	2,347	169,301	9,250	679,045
Other	576	59,124	2,353	217,869
Total:	2,923	228,425	11,603	896,914

(a) Less than half the unit of quantity shown.

**TABLE 8 - IMPORTS (CLEARED FOR HOME CONSUMPTION) OF MINERALS,
MINERAL PRODUCTS AND METALS (Continued)**

Item and Country of Origin	Quarter ended 31st December, 1952		Year ended 31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
NON-METALLIC GROUP (Cont'd)				
Asbestos:- (Cont'd)	ton		ton	
Crocidolite				
Swaziland	-	-	51	6,475
South Africa	21	2,210	127	17,450
Total:	21	2,210	178	23,925
Amosite				
South Africa	2,479	151,012	10,507	544,908
Other	368	36,350	1,886	167,952
Total:	2,847	187,362	12,393	712,860
Other				
Canada	350	26,565	2,007	146,608
South Africa	5	461	1,026	72,186
Other	6	347	522	58,345
Total:	361	27,373	3,555	277,139
Barite:-				
Ground	-	-	49	1,081
Pentonite:-				
United States of America ..	232	3,153	2,688	32,364
Other	(a)	3	186	2,403
Total:	232	3,156	2,874	34,767
Calcium Carbide:-				
United Kingdom	-	-	1	55
South Africa	382	12,468	3,443	112,127
Norway	493	18,806	3,670	150,049
Belgium	-	-	4,446	201,846
Other	-	-	262	16,064
Total:	875	31,274	11,822	480,141
Cement (Portland):-				
United Kingdom	15,178	106,610	104,412	735,527
Japan	8,643	110,854	19,070	234,680
Norway	-	-	2,772	28,082
Sweden	-	-	17,444	109,356
Other	1,255	12,180	7,979	90,365
Total:	25,076	229,644	151,677	1,198,010
Clays:-				
Ball Clay				
United Kingdom	181	1,471	507	3,978
China Clay				
United Kingdom	2,147	13,874	2,710	21,721
Other	-	-	(a)	12
Total:	2,147	13,874	2,710	21,733
Fire Clay				
United Kingdom	91	1,538	386	7,963
Clay, n.e.i.	76	1,621	548	14,641
Diamonds, Industrial:-	carats		carats	
South Africa	86,355	189,447	203,591	458,446
Belgian Congo	9,750	17,528	32,500	58,951
Other	10	38	4,607	9,666
Total:	96,115	207,013	240,698	527,063

(a) Less than half the unit of quantity shown.

TABLE 8 - IMPORTS (CLEARED FOR HOME CONSUMPTION) OF MINERALS,
MINERAL PRODUCTS AND METALS (Continued)

Item and Country of Origin	Quarter ended		Year ended	
	31st December, 1952		31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
NON-METALLIC GROUP (Cont'd)				
	ton		ton	
Diatomite:-				
United States of America ..	192	5,463	712	19,548
Other ..	11	571	123	4,977
Total:	203	6,034	835	24,525
Felspar:-	5	71	333	3,804
Fluorspar:-				
United Kingdom ..	143	3,444	316	6,826
Germany, West ..	-	-	324	7,417
Spain ..	-	-	211	2,407
Total:	143	3,444	851	16,650
French Chalk:-				
India ..	(a)	2	31	645
Italy ..	10	361	25	739
Other ..	2	89	16	898
Total:	12	452	72	2,282
Fullers' Earth:-				
United Kingdom ..	3	37	6	134
Other ..	-	-	1	29
Total:	3	37	7	163
Graphite:-				
Flake				
United Kingdom ..	1	136	19	2,491
Ceylon ..	23	818	23	818
Madagascar ..	103	7,870	255	20,133
Other ..	12	546	13	698
Total:	139	9,370	310	24,140
Crystalline ..	53	2,472	199	13,513
Amorphous				
Ceylon ..	41	1,912	365	22,522
Other ..	23	1,797	225	17,283
Total:	64	3,709	590	39,805
Magnesite:-				
United Kingdom ..	-	-	686	7,353
Other ..	1	58	86	3,098
Total:	1	58	772	10,451
Mica:-	1b.		1b.	
Muscovite - Untrimmed				
United Kingdom ..	2,000	46	2,000	46
India ..	40	72	82,200	8,835
Total:	2,040	118	84,200	8,881
Other, Untrimmed				
India ..	-	-	1,004	2,144

(a) Less than half the unit of quantity shown.

**TABLE 8 - IMPORTS (CLEARED FOR HOME CONSUMPTION) OF MINERALS,
MINERAL PRODUCTS AND METALS (Continued)**

Item and Country of Origin	Quarter ended		Year ended	
	31st December, 1952		31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
NON-METALLIC GROUP (Cont'd.)				
Mica (Cont'd.)	lb.		lb.	
Muscovite - Trimmed				
India	17,500	1,411	80,270	26,979
Other - Trimmed				
United Kingdom	1,013	636	8,657	5,751
India	-	-	750	545
Total:	1,013	636	9,407	6,296
Ground				
United Kingdom	-	-	300	600
India	-	-	600	1,012
South Africa	-	-	4,480	113
Total:	-	-	5,380	1,725
Phosphate Rock:-	ton		ton	
Nauru	170,053	286,130	631,307	1,069,693
Christmas Is.	53,697	148,511	228,703	649,341
Gilbert & Ellice Is.	76,917	154,808	228,717	514,194
Other	2	13	6,400	51,374
Total:	300,669	589,462	1,095,127	2,284,602
Potash Salts:-				
Chloride				
France	2,035	44,859	14,482	341,534
Other	526	14,227	1,576	37,038
Total:	2,561	59,086	16,058	378,572
Salt:-	ton		ton	
Rock				
United Kingdom	967	6,075	2,096	12,306
Table	lb.		lb.	
United Kingdom	253,361	3,489	3,138,721	95,309
Other	-	-	224	3
Total:	253,361	3,489	3,138,945	95,312
Dairy				
United Kingdom	112,000	534	570,000	1,710
Other Salt, N.E.I.	869,098	2,959	4,458,953	14,991
Sillimanite:-	ton		ton	
Sulphur:-	52	1,655	80	2,416
Italy	(a)	41	5	458
United States of America	27,635	389,457	90,112	1,157,051
Other	17,109	758,980	21,287	957,648
Total:	44,744	1,148,478	111,404	2,115,157

(a) Less than half the unit of quantity shown.

TABLE 9 : EXPORTS OF MINERALS, MINERAL PRODUCTS AND METALS,
TO PRINCIPAL COUNTRIES OF DESTINATION : AUSTRALIA,
QUARTER AND YEAR ENDED 31ST DECEMBER, 1952.

Item and Country of Destination	Quarter ended 31st December, 1952.		Year ended 31st December, 1952.	
	Quantity	Value (£A)	Quantity	Value (£A)
METALLIC GROUP				
Aluminium:-	ton		ton	
Pigs, Ingots, etc. ..	489	81,778	489	81,796
Rolled and Drawn Shapes ..	18	4,750	83	15,519
Scrap ..	31	2,128	31	2,128
Cadmium:-				
Ingots				
United Kingdom ..	(a)	65	39	90,566
New Zealand ..	(a)	570	(a)	960
Total:	(a)	635	39	91,526
Bars, Rods, etc.				
United Kingdom ..	-	-	97	214,412
Other ..	(a)	158	(a)	548
Total:	(a)	158	97	214,960
Copper:-				
Pig, Ingots, etc. ..	650	315,400	650	315,461
Rods, Bars, etc. ..	4	841	10	2,520
Plates, Sheets, Strips ..	38	13,215	57	22,942
Pipes and Tubes ..	4	1,856	14	7,619
Scrap ..	77	16,211	78	16,229
	lb.		lb.	
Gold:-				
Ore and Concentrates				
U.S. of America ..	73,654	11,407	240,164	24,443
Other ..	-	-	10,857	750
Total:	73,654	11,407	251,021	25,193
	f.oz.		f.oz.	
Bars, Dust, Ingots etc.				
United Kingdom ..	67,071	1,099,820	136,841	2,236,587
New Zealand ..	-	-	16	298
France ..	-	-	434,726	7,150,444
Switzerland ..	-	-	140,866	2,409,140
Netherlands ..	-	-	112,425	1,709,762
Total:	67,071	1,099,820	824,874	13,506,231
Ilmenite Concentrates:-	ton		ton	
United Kingdom ..	-	-	21	96
U.S. of America ..	-	-	-	-
Other ..	5	25	55	183
Total:	5	25	76	279
Iron and Steel:-				
Pig	51,828	1,097,337	64,701	1,306,537
Ferromanganese ..	43	2,989	64	4,543
Ingots, Blooms, etc.				
New Zealand ..	2,287	70,426	5,828	169,404
Other ..	6	22	8	176
Total:	2,293	70,448	5,836	169,580
Bars and Rods				
New Zealand ..	943	44,022	3,196	127,910
Other ..	1,038	37,309	2,611	140,835
Total:	1,981	81,331	5,807	268,745
Plate and Sheet				
New Zealand ..	1,475	90,679	5,669	356,489
Other ..	106	22,898	1,210	131,931
Total:	1,581	113,577	6,879	488,420

(a) Less than half the unit of quantity shown.

TABLE 9 - EXPORTS OF MINERALS, MINERAL PRODUCTS AND METALS (Cont'd).

Item and Country of Destination	Quarter ended 31st December, 1952.		Year ended 31st December, 1952.	
	Quantity	Value (£A.)	Quantity	Value (£A.)
METALLIC GROUP (Continued)				
Lead:-	ton		ton	
Concentrates				
United Kingdom	1,305	91,980	1,838	131,575
Belgium	8,612	550,684	18,415	1,444,250
U.S. of America	4,417	348,208	17,366	1,539,541
Other	-	-	515	32,707
Total:	14,334	991,072	36,136	3,148,073
Bullion				
United Kingdom	10,592	1,812,035	31,413	5,720,197
Pig				
United Kingdom	21,485	2,595,765	50,048	8,002,778
New Zealand	477	64,082	2,321	448,737
India	350	36,750	1,821	310,148
Pakistan	85	13,125	799	159,002
U.S. of America	25,400	3,238,879	83,398	12,817,693
Other	842	98,607	3,044	538,498
Total:	48,639	6,047,208	141,431	22,276,856
Sheet, Piping	29	4,135	202	48,611
Other Shapes	1	215	1	215
Scrap	35	6,685	35	6,685
Mercury	1b.		1b.	
	90	120	90	120
Platinum and Platinum Group Metals	oz.		oz.	
	79	2,105	629	25,859
Rutile:-	ton		ton	
Concentrates				
United Kingdom	1,945	84,667	9,072	346,437
U.S. of America	4,893	238,216	18,393	810,653
Other	3,713	183,580	10,169	443,715
Total:	10,551	506,463	37,654	1,601,005
Silver:-	oz.		oz.	
Bars, Ingots, Sheets				
United Kingdom	1,718,276	653,633	5,904,828	2,257,530
Other	-	-	42,262	18,966
Total:	1,718,276	653,633	5,954,090	2,276,516
Tantalum and Columbium:-	ton		ton	
Ores and Concentrates	1	1,080	3	3,407
Tin:-				
Concentrates				
Singapore	-	-	9	4,820
Malaya	5	4,000	26	20,543
Total:	5	4,000	35	25,363
Ingots				
United Kingdom	195	225,198	631	725,616
Other	-	-	(a)	158
Total:	195	225,198	631	725,774

(a) Less than half the unit of quantity shown

TABLE 9 - EXPORTS OF MINERALS, MINERAL PRODUCTS AND METALS (Cont'd).

33.

Item and Country of Destination	Quarter ended		Year ended	
	31st December, 1952		31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
METALLIC GROUP (Continued)				
	ton		ton	
Tungsten:-				
Scheelite - Concentrates ..	349	563,629	1,019	1,729,869
Wolfram - Concentrates ..	322	544,331	942	1,653,865
Zinc:-				
Concentrates				
United Kingdom ..	46,265	2,138,817	160,243	7,523,127
Belgium ..	16,985	1,172,518	60,413	4,963,924
Other ..	-	-	160	5,708
Total:	63,250	3,311,335	220,816	12,512,759
Blocks				
United Kingdom ..	10,477	1,427,798	41,071	7,631,765
Other ..	96	21,542	3,670	816,393
Total:	10,573	1,449,340	44,741	8,450,158
Plates, Sheets	22	5,124	131	51,264
Circles, Strips				
India ..	346	79,424	802	180,333
Singapore ..	96	21,710	367	121,814
Other ..	110	25,902	416	121,561
Total:	552	127,036	1,605	423,726
Zircon Concentrates:-				
United Kingdom ..	1,345	14,978	3,456	42,946
U.S. of America ..	4,377	47,591	19,834	230,595
Other ..	777	8,649	2,793	35,018
Total:	6,499	71,218	26,083	308,559
FUEL GROUP				
	ton		ton	
Coal:-				
Fiji ..	3,968	18,610	18,470	90,360
New Caledonia ..	34,898	173,496	106,571	527,362
Other ..	24,796	102,513	51,767	209,286
Total:	63,662	294,619	176,808	827,026
	gal.		gal.	
Petroleum and Shale Oils:-				
Crude ..	-	-	-	-
Other -				
Australian Produce ..	451,650	87,345	1,710,037	237,169
Other Produce..	4,161,048	458,450	8,737,811	974,397
Total:	4,612,698	545,795	10,447,848	1,211,586
NON-METALLIC GROUP				
	ton		ton	
Asbestos:-				
Crude and Fibre				
United Kingdom ..	5	389	23	3,789
U.S. of America ..	96	16,200	250	38,416
Other ..	365	59,889	896	148,235
Total:	466	76,478	1,169	190,440
Barite:-				
Crude ..	15	460	223	5,422
Ground				
British Countries ..	45	788	1,115	23,034
Other ..	20	520	94	2,252
Total:	65	1,308	1,209	25,293

TABLE 9 - EXPORTS OF MINERALS, MINERAL PRODUCTS AND METALS (Cont'd).

Item and Country of Destination	Quarter ended		Year ended	
	31st December, 1952.		31st December, 1952	
	Quantity	Value (£A)	Quantity	Value (£A)
NON-METALLIC GROUP (Continued)				
<u>Calcium Carbide:-</u>	ton		ton	
<u>Cement:-</u>	55	3,278	355	19,318
New Guinea	350	4,659	853	11,350
Papua	125	1,061	405	4,109
Fiji	264	3,402	1,730	18,891
Other	5,713	68,391	7,730	99,448
Total:	6,452	77,513	10,718	133,798
<u>Clays:-</u>				
New Zealand	80	4,460	439	15,024
Other	5	188	56	1,114
Total:	85	4,648	495	16,138
	carats		carats	
<u>Diamonds - Industrial</u>	18,217	29,882	18,217	29,882
<u>Diatomite</u>	ton		ton	
Felspar	2	73	90	3,591
<u>Graphite:-</u>	448	2,698	982	7,728
New Zealand	9	779	41	3,110
Other	-	-	(a)	98
Total:	9	779	41	3,208
<u>Gypsum:-</u>				
New Zealand	10,900	17,520	32,524	49,786
<u>Mica:-</u>	lb.		lb.	
Crude	2,240	35	10,205	472
<u>Salt:-</u>	ton		ton	
Rock	-	-	1,552	6,252
	lb.		lb.	
Table				
New Guinea	66,080	380	266,627	2,085
New Zealand	1,456,000	2,356	17,028,816	35,199
Other	462,755	4,802	1,006,086	7,959
Total:	1,964,835	7,538	18,301,529	45,243
Salt n.e.i.				
New Guinea	71,904	455	440,070	2,910
New Zealand	4,978,800	12,070	26,037,319	62,407
Fiji	476,000	2,833	1,122,240	6,080
Other	372,087	2,560	525,437	4,228
Total:	5,898,791	18,718	28,125,066	75,705
<u>Sillimanite</u>	ton		ton	
-	-	-	101	831
<u>Superphosphate</u>	2	25	1,097	23,118

(a) Less than half the unit of quantity shown

TABLE 10 - SUMMARY OF PRODUCTION, IMPORTS AND EXPORTS OF PRINCIPAL

METALS, COAL AND SULPHUR : AUSTRALIA

YEARS 1939, 1950, 1951, 1952 AND QUARTER ENDED 31ST DECEMBER, 1952.

(Note : Particulars regarding production of refined metals exclude secondary recovery of metal (i.e. from scrap) unless otherwise stated).

Item	Year ended 31st December				Quarter ended
	1939	1950	1951	1952 (a)	31st Dec., 1952 (a)
COPPER (TONS)					
Copper Content of Minerals Produced	20,560	17,481	(b)17,926	18,355	4,460
Production of Refined Copper (c)	17,867	13,231	13,543	17,052	4,971
Imports -					
Ingots (including Blister)	(d) 72	13,948	19,592	24,206	3,669
Rods, Bars, Sheets, Tubes, etc.	(d) 806	11,861	7,512	4,114	1,139
Exports -					
Ingots, etc.	(d) 16	1	12	650	650
Rods, Bars, Sheets, Tubes, etc.	(d) 150	104	54	81	46
Copper in all concentrates etc.	(d) 2,891	1,160	610	959	164
GOLD (FINE OZ.)					
Gold Content of Minerals Produced	1,645,697	869,537	(b)895,551	980,580	280,169
Production of Refined Gold -					
Australian Origin	(e) 1,637,031	844,161	850,236	1,000,045	257,824
Oversea Origin	(e) 384,223	81,551	91,161	240,845	62,234
Total Refined Gold:	(e) 2,021,254	925,712	941,397	1,240,890	320,058
Imports -					
Bar, Dust, Ingot, Sheet	(d) 376,417	158,891	108,913	286,257	65,969
Exports -					
Ores, Concentrates (Gold Content)	(d) 42,732	(d) 8,257	7,387	15,469	3,910
Bar, Dust, Ingot, in matte, etc.	(d) 1,970,240	(d) 84	45	824,874	67,071
Net increase (+) or decrease (-) in Stocks of gold in Australia (f)	(d)(+)15,840	(d)(+)990,220	(+)997,032	(+)426,494	(+)275,177

(a) Subject to revision.

(b) Revised.

(c) Excludes quantities refined from imported blister copper.

(d) Year ended 30th June.

(e) Year ended 31st December, 1940.

(f) Excludes gold specie; includes gold content of mineral products awaiting refining.

TABLE 10 - SUMMARY OF PRODUCTION, IMPORTS AND EXPORTS ETC. (CONT'D).

Item	Year ended 31st December				Quarter ended 31st Dec., 1952(a)
	1939	1950	1951	1952 (a)	
LEAD (TONS)					
Lead Content of Minerals Produced	280,003	225,367	(b)212,013	228,148	56,556
Production of Refined Lead	(c)199,437	160,526	165,758	156,639	40,017
Production of Lead Bullion (Lead Content)	43,955	37,021	31,872	37,709	9,512
Imports - Pig, other unwrought shapes, Sheet, Pipe	(d) 110	6	9	-	-
Exports - Ores, Concentrates (Lead Content)	(d) 26,410	7,926	14,490	22,758	7,101
Lead Bullion (e) (Lead Content)	(d)204,999	33,835	31,557	31,193	10,518
Refined Lead - Pigs, etc.	(f)	125,630	106,180	141,431	48,639
Sheet, Pipe, etc.	(d) 620	538	858	203	30
IRON AND STEEL (TONS)					
Iron Content of Ore Produced	1,548,031	1,417,608	1,459,179	1,748,913	515,461
Production of Pig Iron	(h)1,104,605	1,313,457	1,331,384	1,535,409	442,665
Production of Ingot Steel	(g)1,170,103	1,455,940	1,467,152	1,641,392	472,667
Imports - Iron ore	(h)	5,302	2,916	2,835	(i)
Pig Iron	(d) 51	12,647	11,503	6,232	-
Iron and Steel - Ingots, Blooms, Billets, etc.	(d) 4,390	1,926	1,363	2,542	293
Bars, Rods, Plates, Sheet, etc. (j)	(d) 123,900	247,137	230,773	261,243	35,353
Exports - Iron Ore	(d) 132,163	-	-	-	-
Pig Iron	(d) 52,321	11,053	5,812	64,701	51,828
Iron and Steel - Ingots, blooms, Billets	(d) 17,656	3,659	1,560	5,636	2,293
Bar, Rod	(d) 104,714	12,915	4,717	5,807	1,981
Plate, Sheet	(d) 13,076	8,938	2,781	6,879	1,581
SILVER (FINE OZ.)					
Silver Content of Minerals Produced	15,320,116	10,983,802	(b)10,243,691	11,257,556	2,774,844
Production of Refined Silver (k)	9,552,411	6,882,028	6,978,191	6,882,541	1,883,976
Imports - Bars, Ingots, etc.	(d) 200,568	74,688	79,186	123,240	28,713
Exports - Ore and Concentrates (Silver Content)	(d)1,840,159	1,390,000	1,400,000	1,324,843	503,735
Silver-Lead Bullion (Silver Content)	(d)9,426,059	2,623,698	2,446,983	2,264,284	902,233
Bars, Ingots, Sheets	(l)	7,488,141	7,180,541	5,954,090	1,718,276

(a) Subject to revision. (b) Revised. (c) Includes small quantities recovered from scrap. (d) Year ended 30th June, 1939. (e) Exported as lead bullion, lead content 99.3%. (f) Included with lead content of lead bullion. (g) Year ended 31st May, 1939. (h) Not available. (i) Less than half the unit of quantity shown. (j) Includes ternary-plate and tin-plate. (k) Includes small quantities recovered from imported materials. (l) Included with silver content of silver-lead bullion.

TABLE 10 - SUMMARY OF PRODUCTION, IMPORTS AND EXPORTS ETC. (Cont'd).

Item	Year ended 31st December				Quarter ended 31st Dec., 1952 (a)
	1939	1950	1951	1952 (a)	
<u>TIN (TONS)</u>					
Tin Content of Minerals Produced	3,067	1,854	(b) 1,559	1,538	347
Production of Refined Tin	3,294	2,014	1,459	1,700	452
Imports - Ingots	(c) 39	249	2,723	180	-
Exports - Ores, Concentrates (Tin Content)	(c) 309	5	41	21	3
Ingots	(c) 1,476	(c)	-	631	195
<u>ZINC (TONS)</u>					
Zinc Content of Minerals Produced	214,623	197,763	169,227	196,386	48,653
Production of Refined Zinc (a)	71,220	83,652	77,010	87,446	21,874
Imports - Blocks, Plates, Sheets etc.	(c) 1,311	131	195	346	11
Exports - All Concentrates etc. (Zinc Content)	(c) 134,017	89,819	80,050	110,728	30,149
Ingots, Blocks	(c) 44,617	43,000	20,529	44,741	10,573
Plates, Sheets, etc.	(c) 20	3,173	2,094	1,736	574
<u>COAL (TONS)</u>					
Production					
Black -					
Semi-anthracite	72,227	100,763	82,426	85,453	20,607
Bituminous	12,809,284	15,189,724	(b) 16,029,615	17,724,616	4,422,542
Sub-bituminous	653,631	1,253,004	(b) 1,496,387	1,611,643	414,519
Total, Black	13,535,142	16,543,491	17,608,428	19,421,912	4,857,666
Underground	11,820,119	13,984,998	13,942,416	(f) 15,342,870	3,906,548
Open-cut	1,715,023	2,558,493	3,666,012	(f) 4,079,042	951,120
Brown (incl. Lignite)(e)	3,651,014	7,327,119	7,836,056	8,103,764	1,942,663
Imports -					
Black	(b) 86,970	636,219	352,734	272,352	22,129
Exports -					
Black	(b) 382,085	67,391	114,503	176,828	63,662

(a) Subject to revision.

(b) Revised.

(c) Year ended 30th June, 1939.

(d) Includes zinc dust produced for sale and for use in the zinc refining plant.

(e) All open-cut.

TABLE 10 - SUMMARY OF PRODUCTION, IMPORTS AND EXPORTS, ETC. (Cont'd.)

Item	Year ended 31st December				Quarter ended 31st Dec., 1952 (a)
	1939	1950	1951	1952 (a)	
<u>SULPHUR (TONS)</u>					
Sulphur Content of Minerals Produced					
Zinc Concentrate	123,968	119,736	(b) 113,964	119,640	29,496
Pyrites	27,040	57,177	(b) 65,962	93,527	23,731
Spent Oxide Roasted	(c)	(d) 2,930	(d) 3,200	(d) 4,211	(d) 936
Total Sulphur Content	151,008	179,843	(b) 183,126	217,378	54,165
Recoverable Sulphur (d)	129,709	156,095	(b) 159,050	189,555	47,235
Production of Mono Acid	(e) 484,493	639,600	652,125	628,302	153,533
Quantity of Sulphur in Mono acid produced -					
Sulphur (Elemental)(f)	(d) 114,500	134,000	135,683	112,225	27,044
From Zinc Concentrate(d)	25,300	32,000	32,850	33,115	7,503
From Pyrites (d)	27,040	45,000	50,300	57,891	14,931
From Spent Oxide (d)	(c)	2,050	2,230	3,231	727
Total (d)	166,840	213,050	221,063	206,462	50,205
Imports -					
Sulphur (Elemental)	(e) 115,101	191,790	99,382	111,404	44,744
Exports -					
Sulphur Content in Zinc Concentrate	(e) 78,373	55,300	49,500	70,661	20,240
Estimated Recoverable Sulphur in Zinc Concentrate Exported	(e) 66,617	47,005	42,075	60,061	17,204

(a) Subject to revision.

(b) Revised.

(c) Not available.

(d) Estimated.

(e) Year ended 30th June, 1939.

(f) All imported.

S.R. CARVER

ACTING COMMONWEALTH STATISTICIAN.COMMONWEALTH BUREAU OF CENSUS AND STATISTICS.CANBERRA. A.C.T.9TH JUNE, 1952.

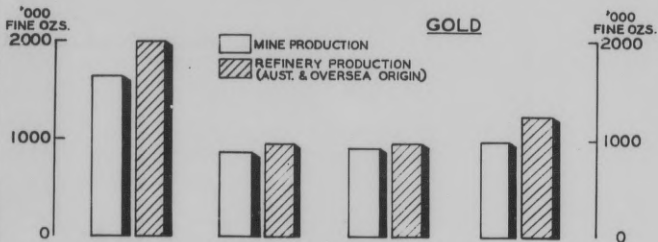
PRINCIPAL MINERALS: AUSTRALIA

ANNUAL TOTALS, 1939 AND 1950 TO 1952

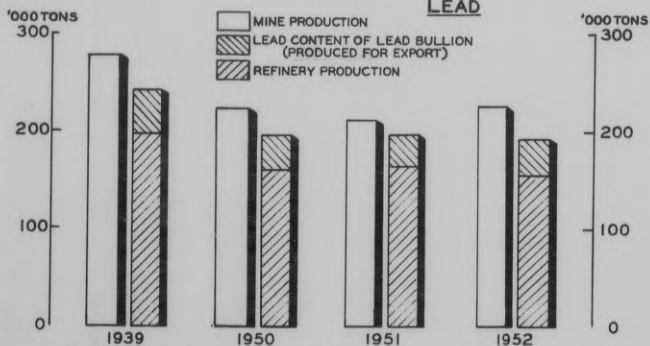
COPPER



GOLD



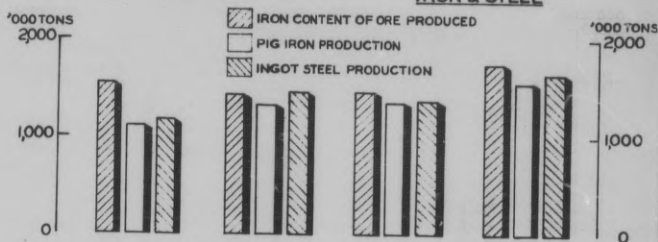
LEAD



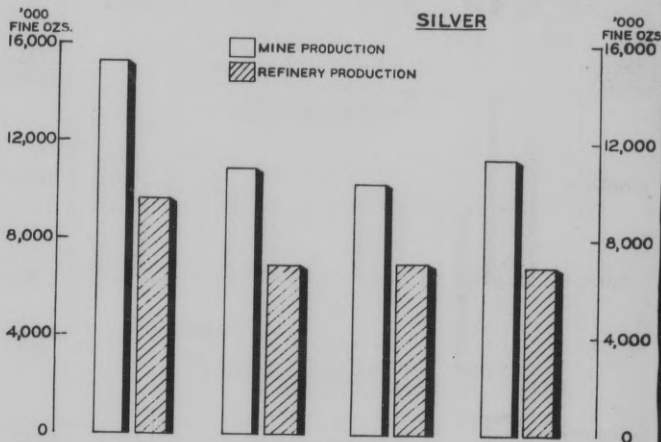
PRINCIPAL MINERALS: AUSTRALIA

ANNUAL TOTALS, 1939 AND 1950 TO 1952

IRON & STEEL



SILVER



TIN

